

10657115

451 356

9/9/03

451 / 356, 364, 365, 523, 524, 525

### Claims

1. An improvement of a clip mechanism on a grinding cloth platform having a table board with a proper area, in which a vertical handle is provided at a top side for a hand to hold and a properly elastic foam layer is well pasted on a bottom side; a grinding cloth is paved at the two sides of the bottom side on the foam layer and oppositely folded at the two sides of the top side on the table board and may further be clamped by the clip mechanism provided on the table board, characterized in that said improved clip mechanism includes a jack post, a movable knob, and a clamp, in which
- the jack post is provided with a suppressing head 21 with a top of a larger circle diameter and with a shaft linking portion of a smaller circle diameter and a hexagonal driving portion is provided at the bottom, in which the bottom of the driving portion is formed with a tapped hole;
- the <sup>movable what should be knob</sup>movable stretches to one side and is provided with a movable stem, in which a vertical suppressing slot with a larger circle diameter and a shaft hole with a smaller circle diameter are arranged, and at the bottom side around the shaft hole, a concave is formed, and the two sides of the concave is respectively provided with a stopping block;
- for the clamp, an anti-push surface is provided at the top side, a concave is formed at the center of the anti-push surface, and a located protruding block is formed at the two sides of the concave, in which a hexagonal covering hole is provided in the concave and several teeth 45 keeping a predefined distance with each other are provided at the two sides of the underside of the clamp;

for the table board, the surface has a combination base formed with a

hexagonal slot;

5 through the jack post provided with the top shaft linking portion in the shaft  
hole of the movable knob and with the suppressing head, linking with the  
movable knob, in the suppressing slot of the movable knob and through the  
jack post provided with the hexagonal bottom driving portion inserting the  
hexagonal combination hole provided in the concave of the clamp and covering  
a suppressing spring at the bottom side within the clamp and with the end of  
the driving portion, which is inserted into the slot of the combination base on  
10 the table board, an improvement of the clip mechanism on the grinding cloth  
platform is achieved using a screw locked.

awkwardly  
worded

- 15 2. The improved clip mechanism on the grinding cloth platform as claimed in  
claim 1, in which the anti-push surface of the clamp is formed with the  
concave corresponding to the concave formed at the bottom side of the  
movable knob so that the clamp is put on the jack post to upward move.
- 20 3. The improved clip mechanism on the grinding cloth platform as claimed in  
claim 1, in which the bottom side of the movable knob equally strides across  
the suppressed clamp at the two sides of the jack post of the clamp linking  
with a pivot, thereby providing a precise clamp force to the clamp.
- 25 4. The improved clip mechanism on the grinding cloth platform as claimed in  
claim 1, in which the non-round combination covering hole of the clamp is  
put on the non-round driving portion of the jack post, thereby making the  
clamp stable and disallowing it to rotate around the shaft so that the clamping  
tooth provided at its bottom side is precisely aligned with the table board,  
clamping the grinding cloth for fixing.

5. The improved clip mechanism on the grinding cloth platform as claimed in claim 1, in which the two sides of the bottom side of the movable knob is provided with a stopping block, while the two sides of the anti-push surface of the clamp is provided with a located protruding block, thereby allowing the movable knob precisely downward to shift to the suppressed clamp.

10